

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062920\
 Data File : VX017020.D
 Acq On : 29 Jun 2020 20:26
 Operator : JC/SP
 Sample : L3112-09
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RB02-20200624

Quant Time: Jun 30 05:32:29 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X062920W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jun 29 17:10:38 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	262949	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	457750	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	466839	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	247886	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	173099	53.40	ug/l	0.00
Spiked Amount			Recovery	=	106.80%	
35) Dibromofluoromethane	5.47	113	145194	50.14	ug/l	0.00
Spiked Amount			Recovery	=	100.28%	
50) Toluene-d8	8.70	98	559450	52.25	ug/l	0.00
Spiked Amount			Recovery	=	104.50%	
62) 4-Bromofluorobenzene	11.12	95	232614	55.57	ug/l	0.00
Spiked Amount			Recovery	=	111.14%	

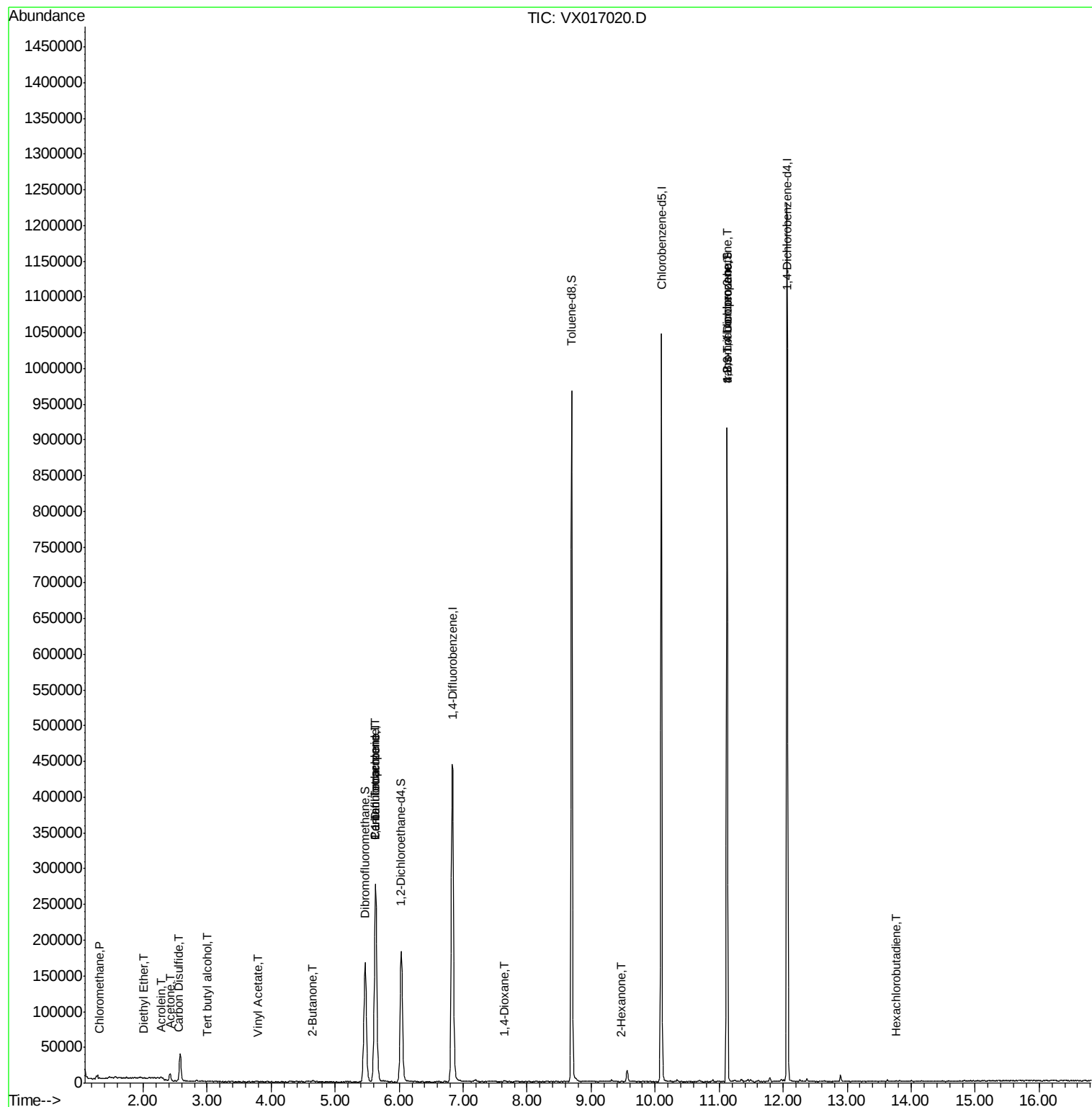
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.31	50	954	0.310	ug/l	93
8) Diethyl Ether	2.01	74	67	0.412	ug/l	71
11) Tert butyl alcohol	3.01	59	474	0.766	ug/l #	76
13) Acrolein	2.28	56	431	1.166	ug/l	91
16) Acetone	2.42	43	10854	8.951	ug/l #	87
17) Carbon Disulfide	2.55	76	1845	0.277	ug/l #	90
20) Methylene Chloride	2.83	84	746	Below Cal	#	78
23) Vinyl Acetate	3.79	43	1766	0.231	ug/l #	71
25) 2-Butanone	4.65	43	1715	0.849	ug/l #	71
36) 1,1-Dichloropropene	5.63	75	20165	4.661	ug/l #	50
38) Carbon Tetrachloride	5.63	117	26436	5.548	ug/l #	16
44) Trichloroethene	7.20	130	992	Below Cal		83
49) 1,4-Dioxane	7.65	88	46	0.586	ug/l #	1
59) 2-Hexanone	9.47	43	643	0.202	ug/l	72
76) 1,2,3-Trichloropropane	11.12	75	115681	23.732	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	115681	61.457	ug/l #	13
88) 1,4-Dichlorobenzene	12.01	146	747	Below Cal		87
94) Hexachlorobutadiene	13.77	225	108	0.898	ug/l #	42

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Jun 29 17:10:38 2020
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 746

Delta R.T. -0.00 min

Lab File: VX017020.D

Acq: 29 Jun 2020 20:26

Instrument :

MSVOA_X

ClientSampleId :

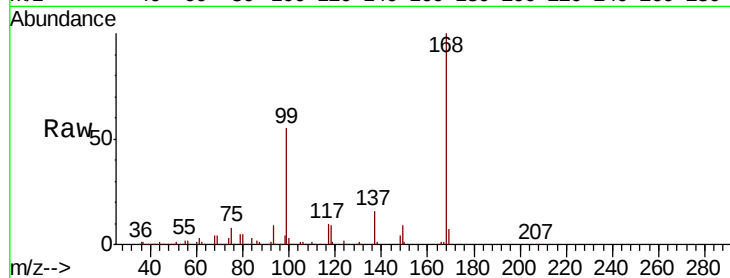
RB02-20200624

Tot Ion:168 Resp: 262949

Ion Ratio Lower Upper

168 100

99 55.2 42.6 64.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

100000

80000

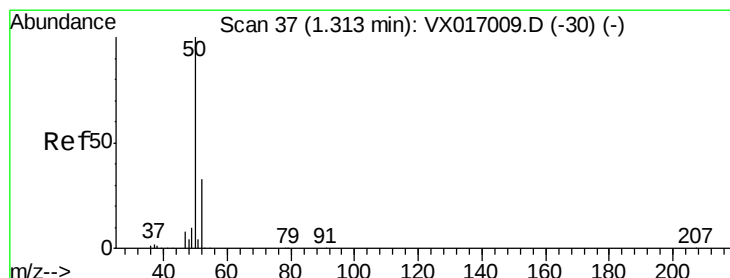
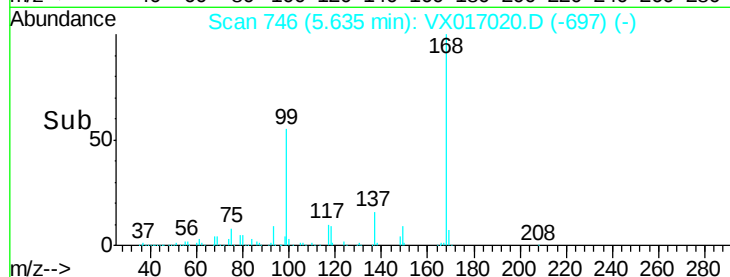
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.310 ug/l

RT: 1.31 min Scan# 37

Delta R.T. -0.00 min

Lab File: VX017020.D

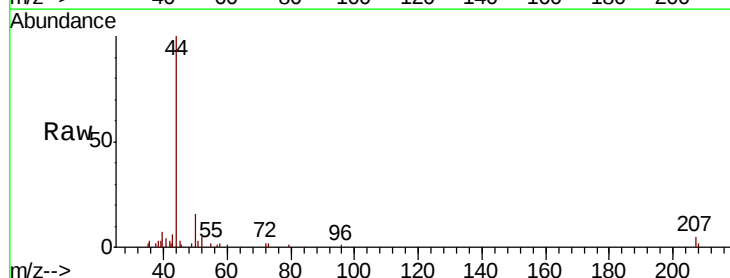
Acq: 29 Jun 2020 20:26

Tgt Ion: 50 Resp: 954

Ion Ratio Lower Upper

50 100

52 28.8 26.1 39.1



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.31

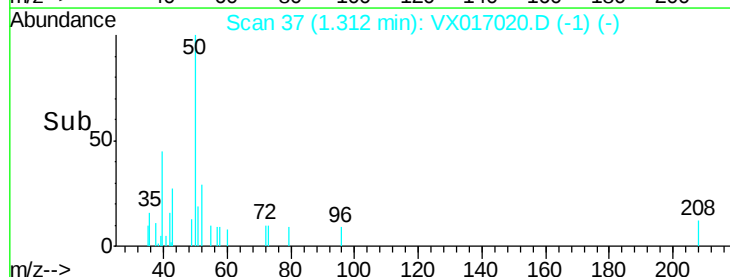
600

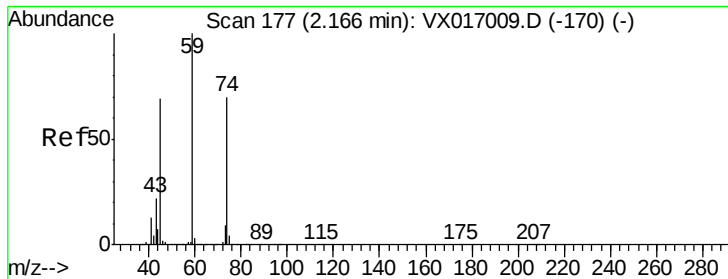
400

200

0

Time-->





#8

Diethyl Ether

Concen: 0.412 ug/l

RT: 2.01 min Scan# 151

Delta R.T. -0.16 min

Lab File: VX017020.D

Acq: 29 Jun 2020 20:26

Instrument :

MSVOA_X

ClientSampleId :

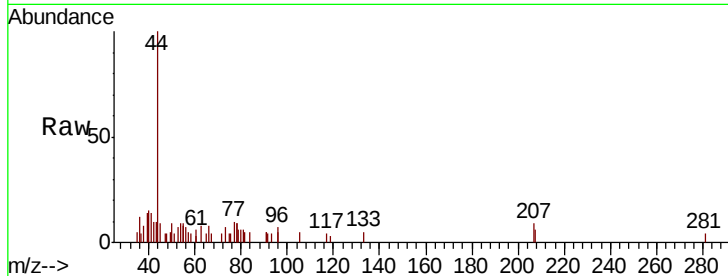
RB02-20200624

Tot Ion: 74 Resp: 67

Ion Ratio Lower Upper

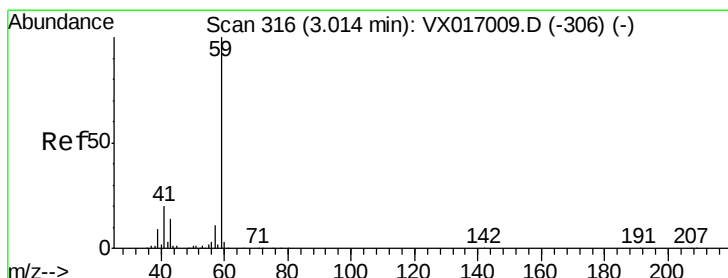
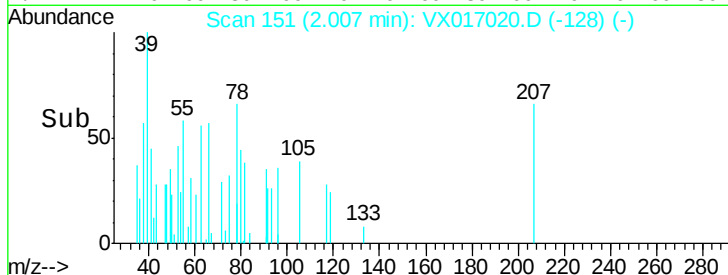
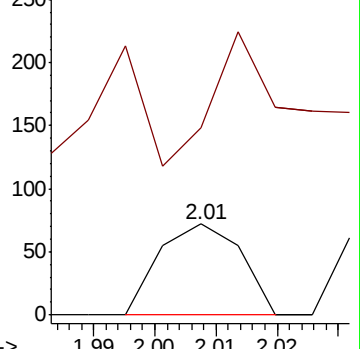
74 100

45 128.4 49.8 149.3



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



#11

Tert butyl alcohol

Concen: 0.766 ug/l

RT: 3.01 min Scan# 316

Delta R.T. -0.00 min

Lab File: VX017020.D

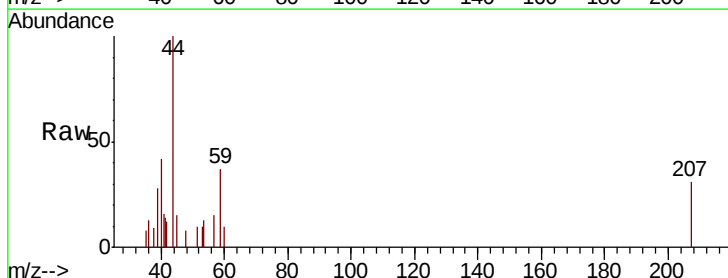
Acq: 29 Jun 2020 20:26

Tgt Ion: 59 Resp: 474

Ion Ratio Lower Upper

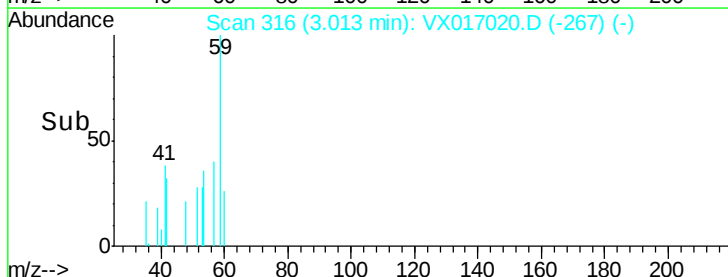
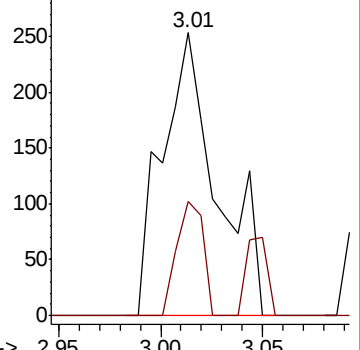
59 100

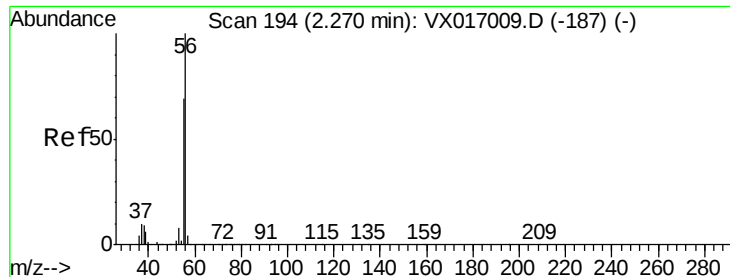
57 19.2 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 1.166 ug/l

RT: 2.28 min Scan# 195

Delta R.T. 0.01 min

Lab File: VX017020.D

Acq: 29 Jun 2020 20:26

Instrument :

MSVOA_X

ClientSampleId :

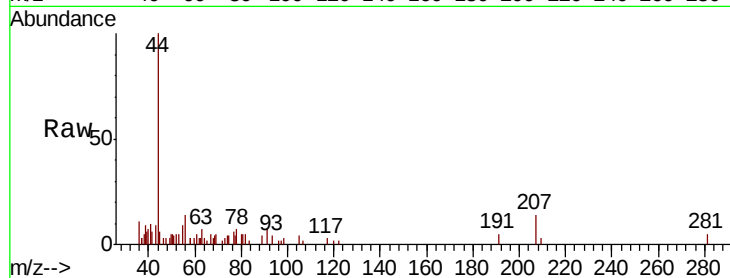
RB02-20200624

Tot Ion: 56 Resp: 431

Ion Ratio Lower Upper

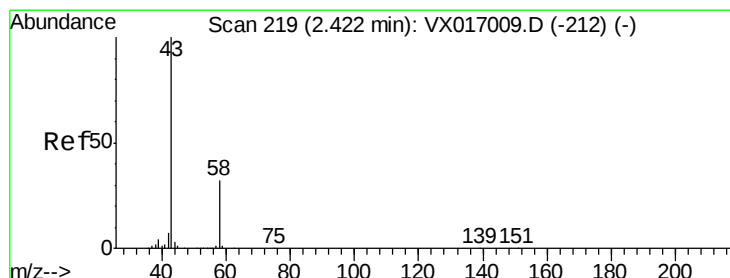
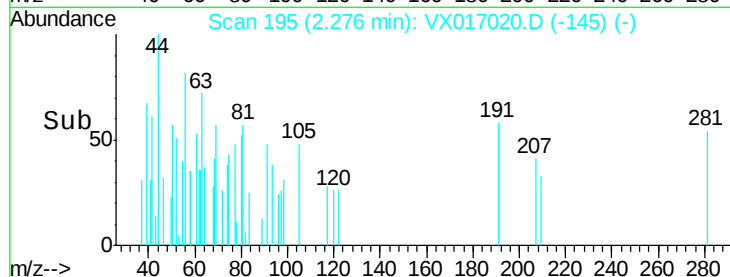
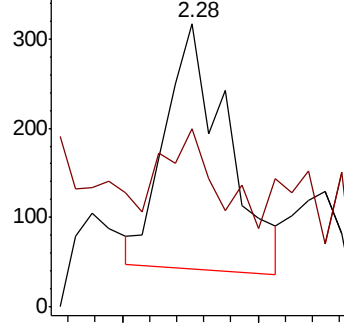
56 100

55 62.2 55.7 83.5



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 8.951 ug/l

RT: 2.42 min Scan# 219

Delta R.T. -0.00 min

Lab File: VX017020.D

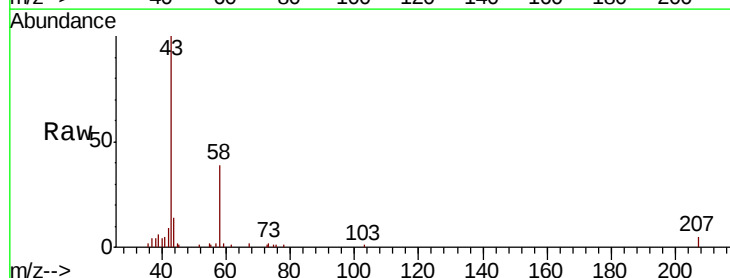
Acq: 29 Jun 2020 20:26

Tgt Ion: 43 Resp: 10854

Ion Ratio Lower Upper

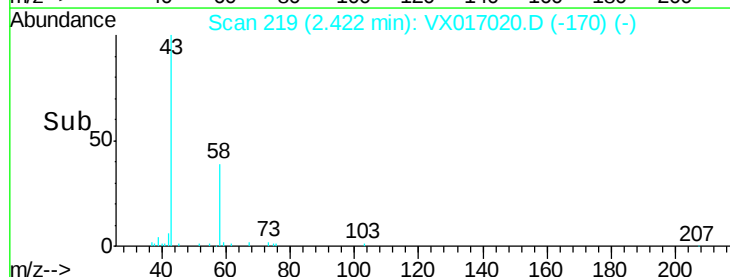
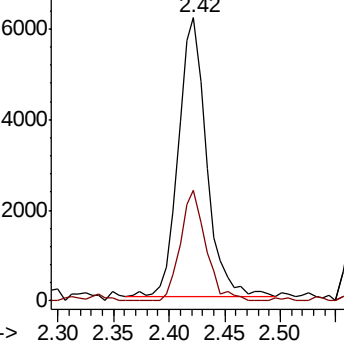
43 100

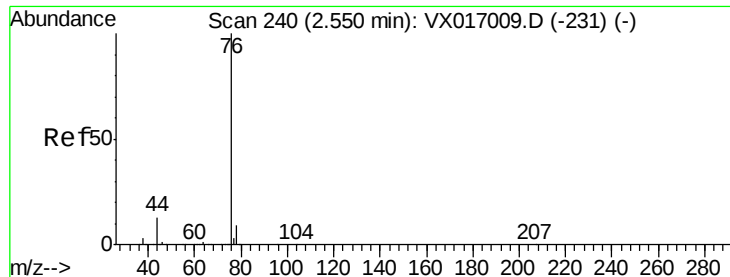
58 39.6 25.7 38.5#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

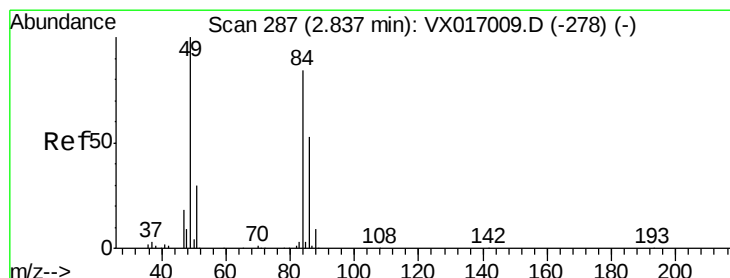
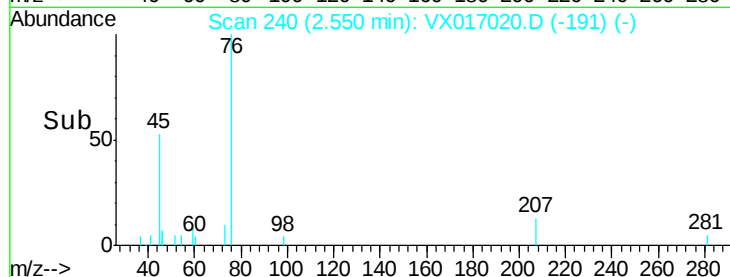
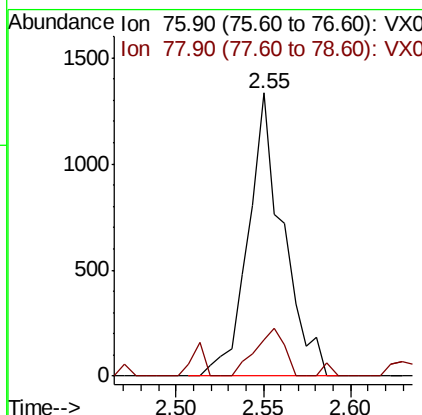
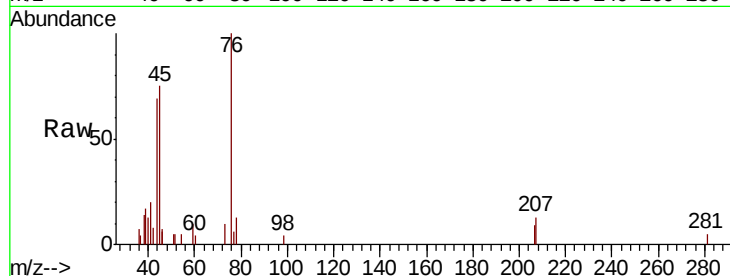




#17
Carbon Disulfide
Concen: 0.277 ug/l
RT: 2.55 min Scan# 240
Delta R.T. 0.00 min
Lab File: VX017020.D
Acq: 29 Jun 2020 20:26

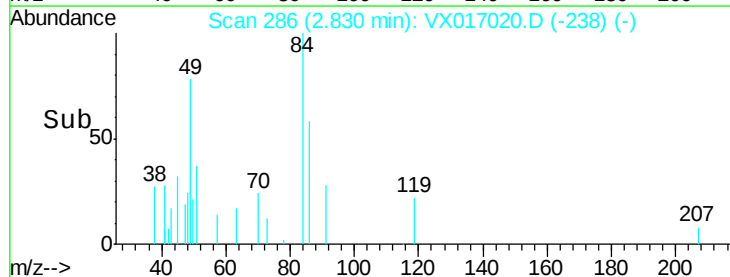
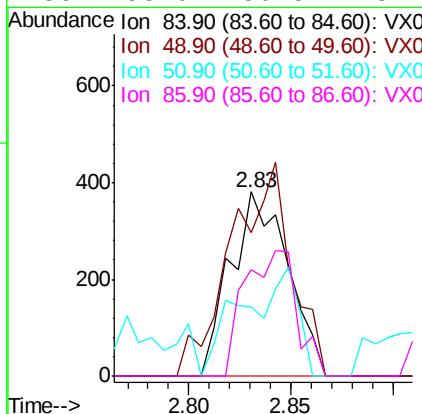
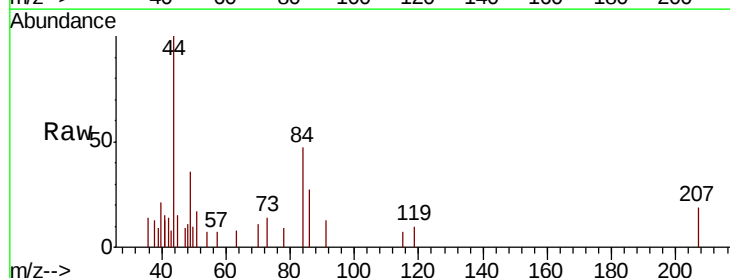
Instrument :
MSVOA_X
ClientSampleId :
RB02-20200624

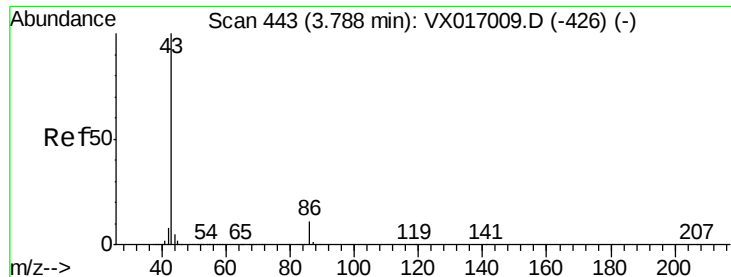
Tot Ion: 76 Resp: 1845
Ion Ratio Lower Upper
76 100
78 12.7 7.2 10.8#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.83 min Scan# 286
Delta R.T. -0.01 min
Lab File: VX017020.D
Acq: 29 Jun 2020 20:26

Tgt Ion: 84 Resp: 746
Ion Ratio Lower Upper
84 100
49 77.7 94.7 142.1#
51 37.3 28.6 42.8
86 58.0 50.5 75.7





#23

Vinyl Acetate

Concen: 0.231 ug/l

RT: 3.79 min Scan# 444

Delta R.T. 0.01 min

Lab File: VX017020.D

Acq: 29 Jun 2020 20:26

Instrument :

MSVOA_X

ClientSampleId :

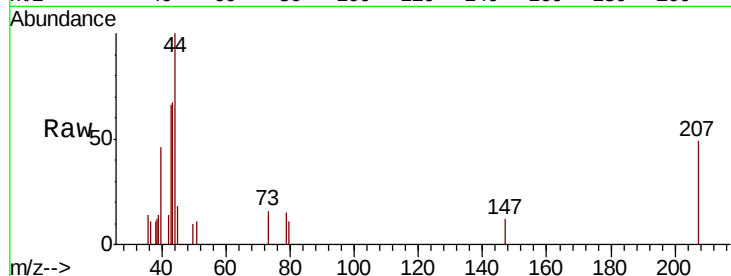
RB02-20200624

Tot Ion: 43 Resp: 1766

Ion Ratio Lower Upper

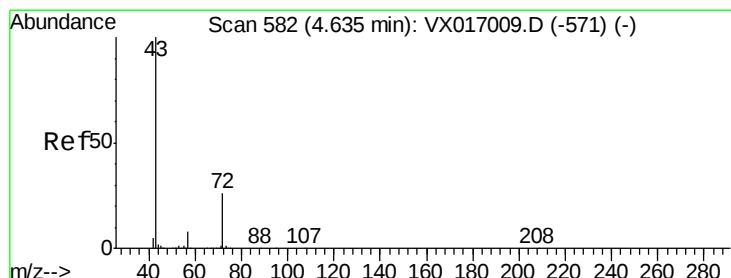
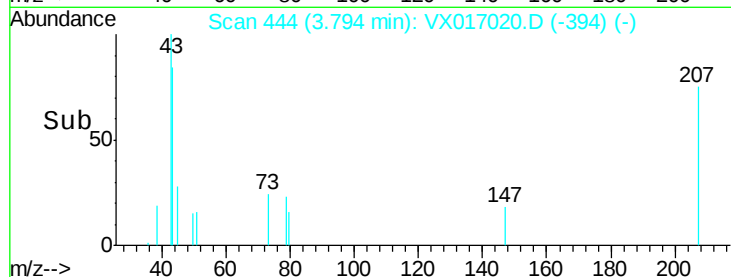
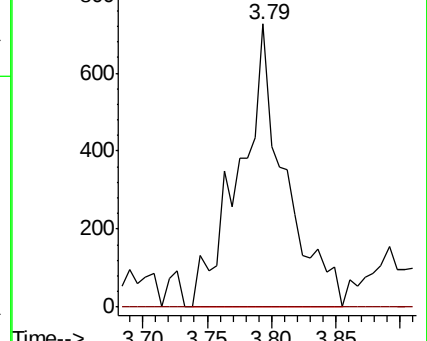
43 100

86 0.0 8.6 13.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 86.00 (85.70 to 86.70): VX0



#25

2-Butanone

Concen: 0.849 ug/l

RT: 4.65 min Scan# 584

Delta R.T. 0.01 min

Lab File: VX017020.D

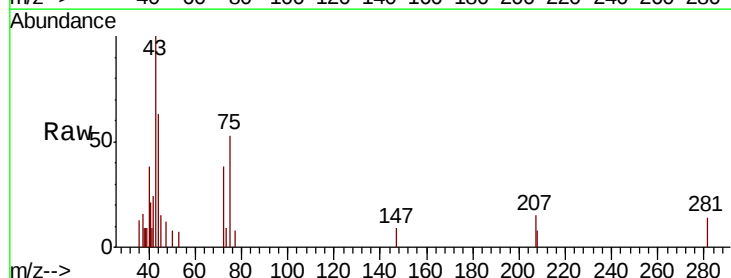
Acq: 29 Jun 2020 20:26

Tgt Ion: 43 Resp: 1715

Ion Ratio Lower Upper

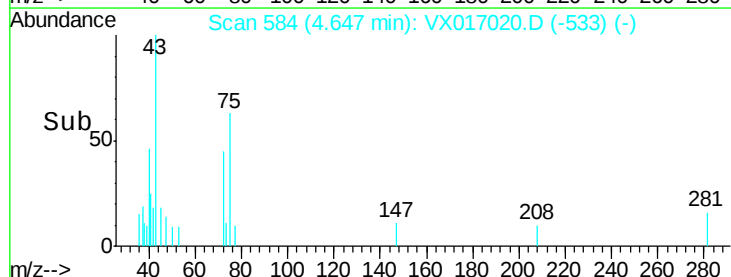
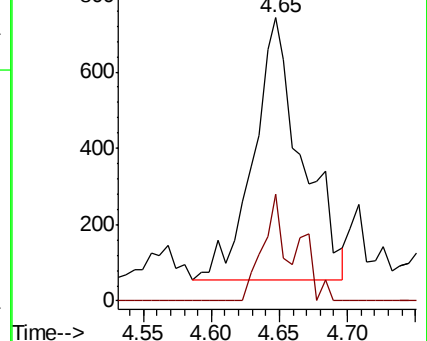
43 100

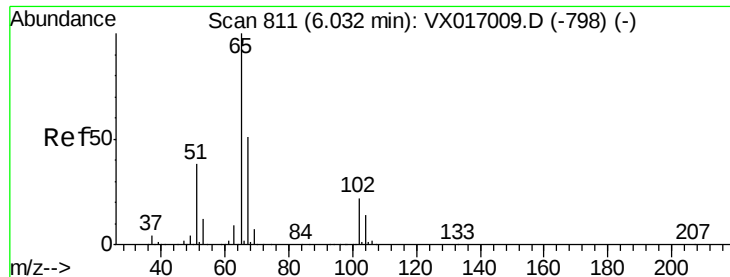
72 40.8 20.8 31.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 53.399 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX017020.D

Acq: 29 Jun 2020 20:26

Instrument :

MSVOA_X

ClientSampleId :

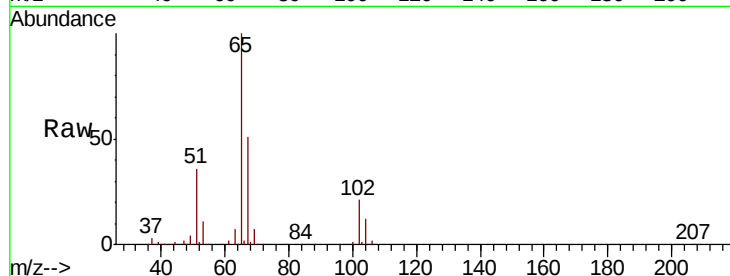
RB02-20200624

Tot Ion: 65 Resp: 173099

Ion Ratio Lower Upper

65 100

67 51.5 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.03

80000

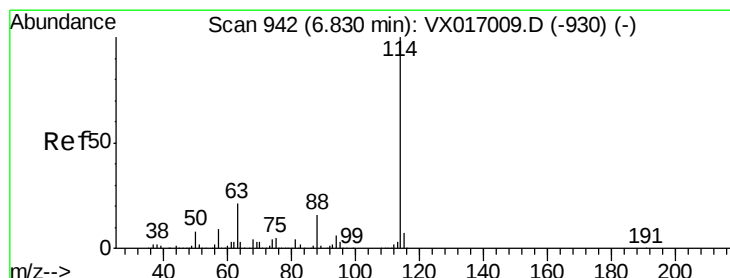
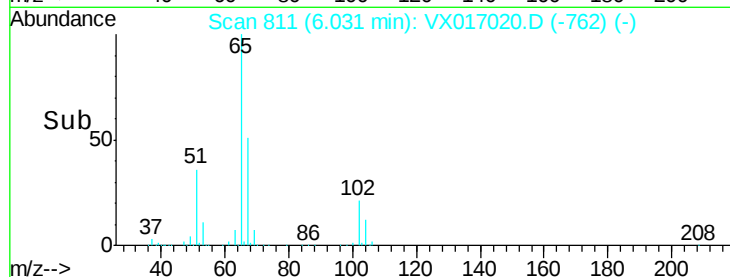
60000

40000

20000

0

Time--> 5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 943

Delta R.T. 0.01 min

Lab File: VX017020.D

Acq: 29 Jun 2020 20:26

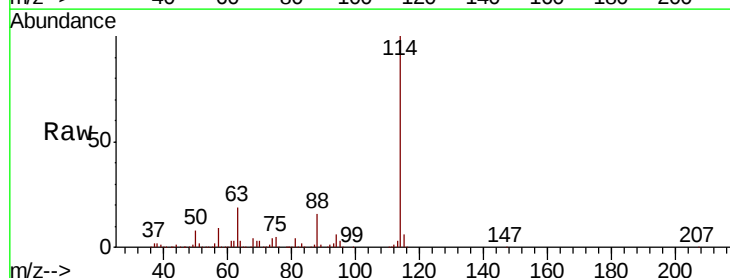
Tgt Ion: 114 Resp: 457750

Ion Ratio Lower Upper

114 100

63 19.2 0.0 41.4

88 16.2 0.0 32.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

250000

200000

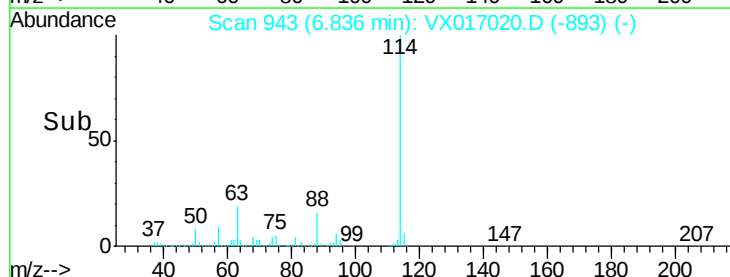
150000

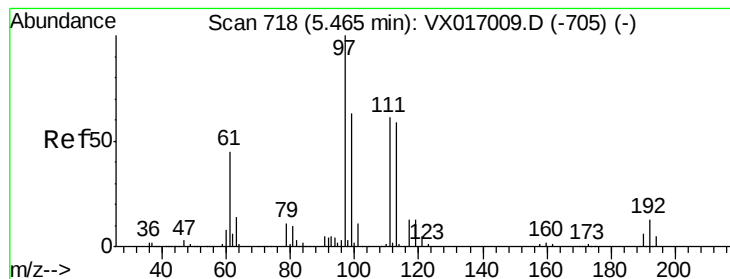
100000

50000

0

Time--> 6.70 6.80 6.90 7.00





#35

Dibromofluoromethane

Concen: 50.143 ug/l

RT: 5.47 min Scan# 719

Delta R.T. 0.01 min

Lab File: VX017020.D

Acq: 29 Jun 2020 20:26

Instrument :

MSVOA_X

ClientSampleId :

RB02-20200624

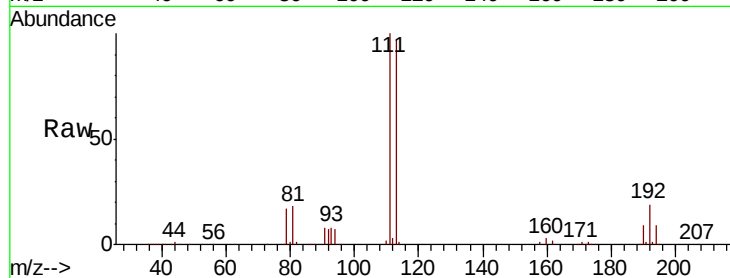
Tot Ion:113 Resp: 145194

Ion Ratio Lower Upper

113 100

111 102.9 81.9 122.9

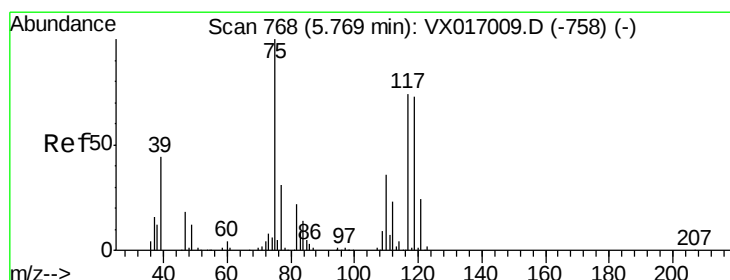
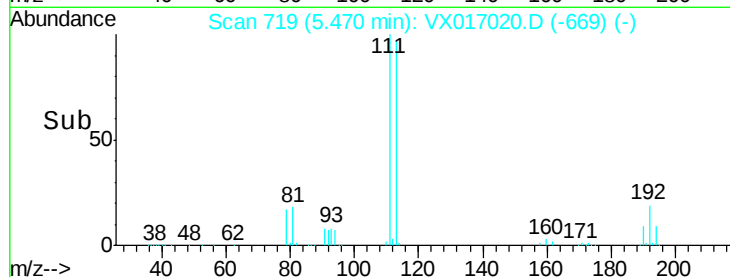
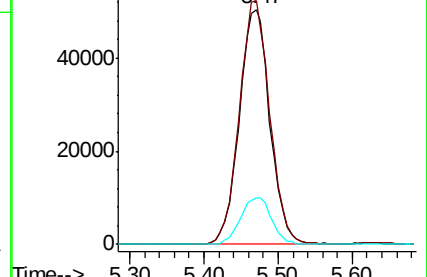
192 20.2 16.7 25.1



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.661 ug/l

RT: 5.63 min Scan# 746

Delta R.T. -0.13 min

Lab File: VX017020.D

Acq: 29 Jun 2020 20:26

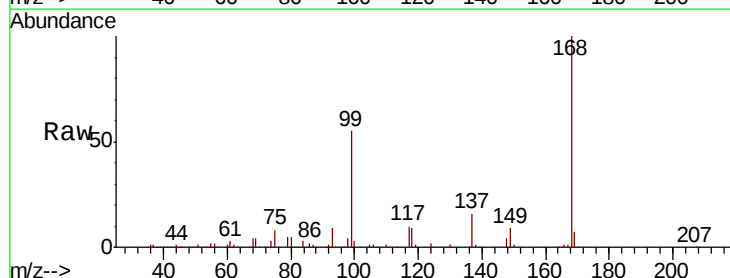
Tgt Ion: 75 Resp: 20165

Ion Ratio Lower Upper

75 100

110 10.0 18.1 54.1#

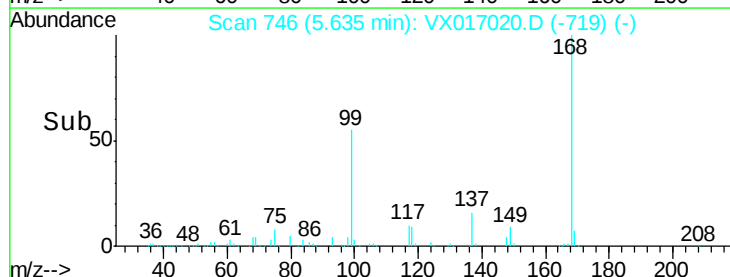
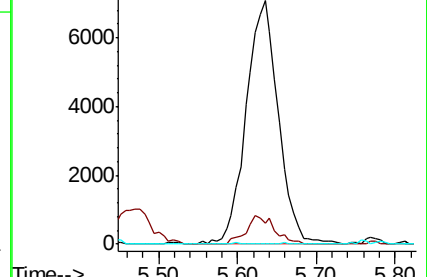
77 0.0 24.6 37.0#

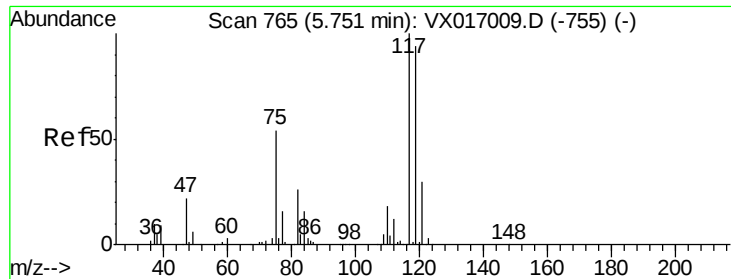


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

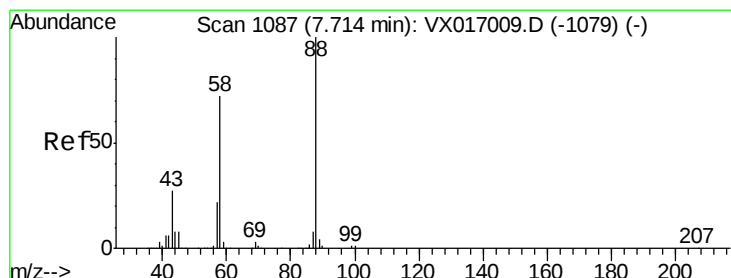
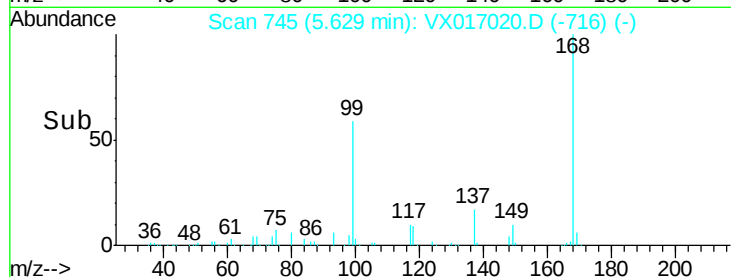
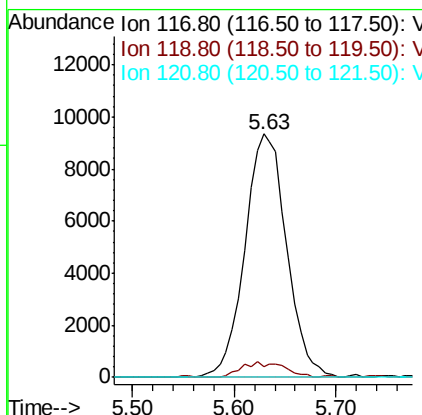
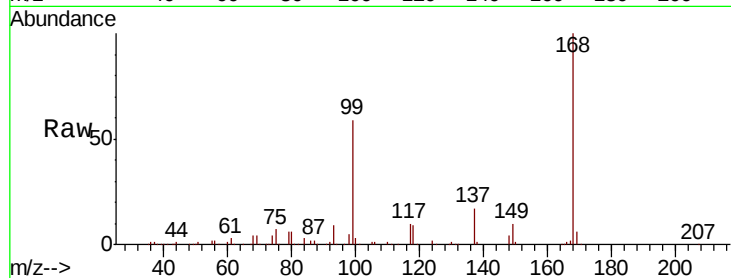




#38
Carbon Tetrachloride
Concen: 5.548 ug/l
RT: 5.63 min Scan# 745
Delta R.T. -0.12 min
Lab File: VX017020.D
Acq: 29 Jun 2020 20:26

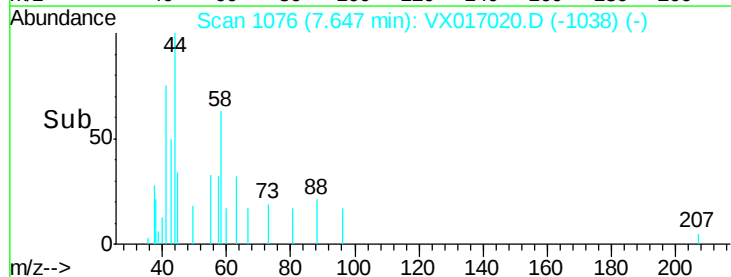
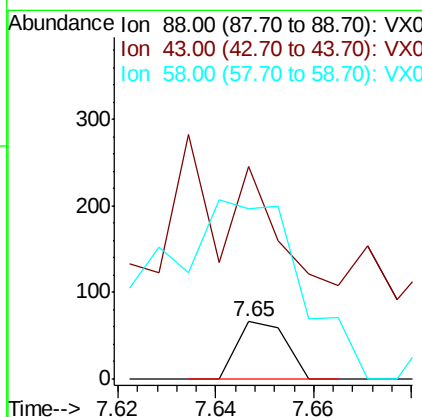
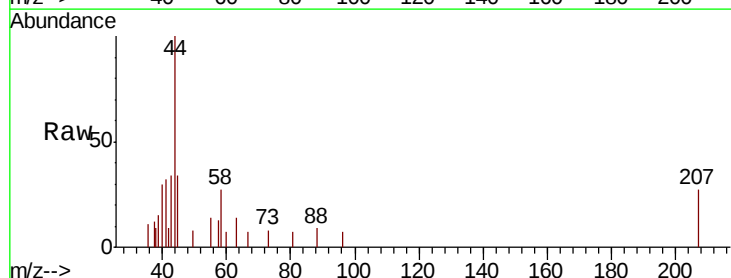
Instrument :
MSVOA_X
ClientSampleId :
RB02-20200624

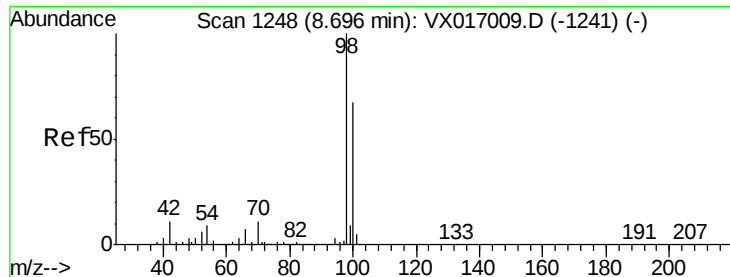
Tot Ion:117 Resp: 26436
Ion Ratio Lower Upper
117 100
119 4.1 75.4 113.0#
121 0.0 23.8 35.6#



#49
1,4-Dioxane
Concen: 0.586 ug/l
RT: 7.65 min Scan# 1076
Delta R.T. -0.07 min
Lab File: VX017020.D
Acq: 29 Jun 2020 20:26

Tgt Ion: 88 Resp: 46
Ion Ratio Lower Upper
88 100
43 356.5 25.8 38.8#
58 941.3 54.8 82.2#





#50

Toluene-d8

Concen: 52.249 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX017020.D

Acq: 29 Jun 2020 20:26

Instrument :

MSVOA_X

ClientSampleId :

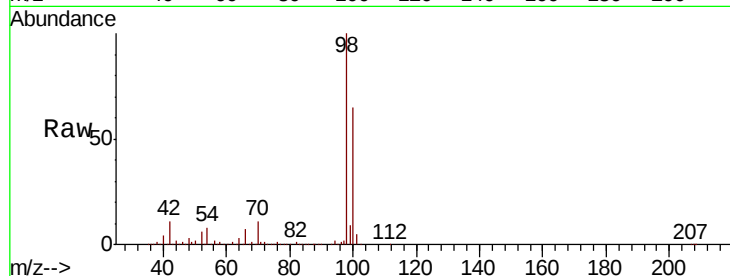
RB02-20200624

Tot Ion: 98 Resp: 559450

Ion Ratio Lower Upper

98 100

100 65.9 53.8 80.6



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

8.70

400000

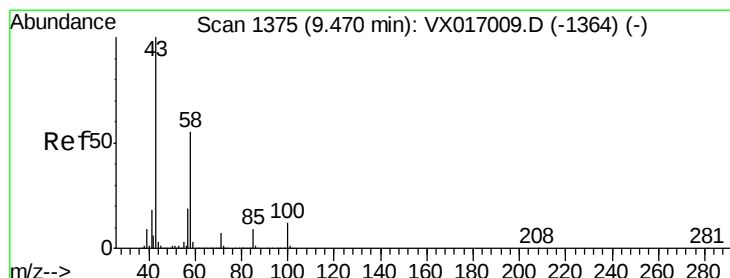
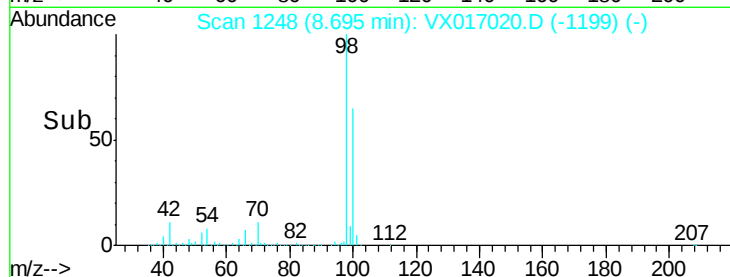
300000

200000

100000

0

Time-->



#59

2-Hexanone

Concen: 0.202 ug/l

RT: 9.47 min Scan# 1375

Delta R.T. -0.00 min

Lab File: VX017020.D

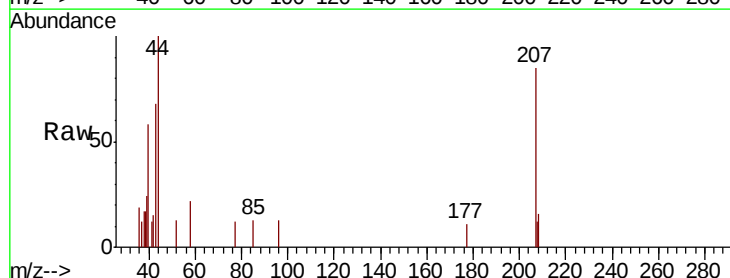
Acq: 29 Jun 2020 20:26

Tgt Ion: 43 Resp: 643

Ion Ratio Lower Upper

43 100

58 35.5 27.9 83.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2000

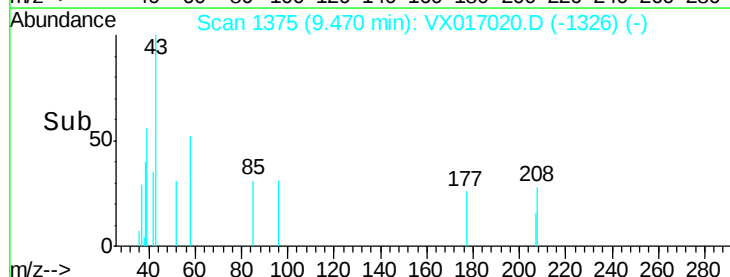
1500

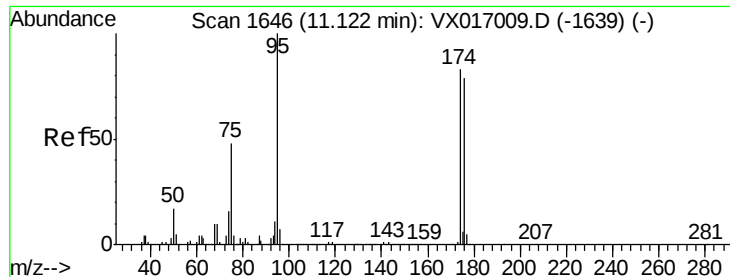
1000

500

0

Time-->





#62

4-Bromofluorobenzene

Concen: 55.575 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX017020.D

Acq: 29 Jun 2020 20:26

Instrument :

MSVOA_X

ClientSampleId :

RB02-20200624

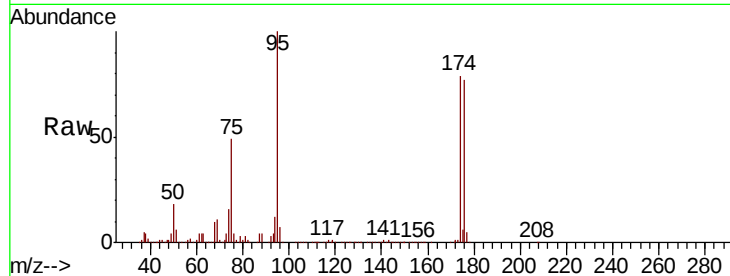
Tot Ion: 95 Resp: 232614

Ion Ratio Lower Upper

95 100

174 79.2 0.0 164.0

176 77.9 0.0 157.6



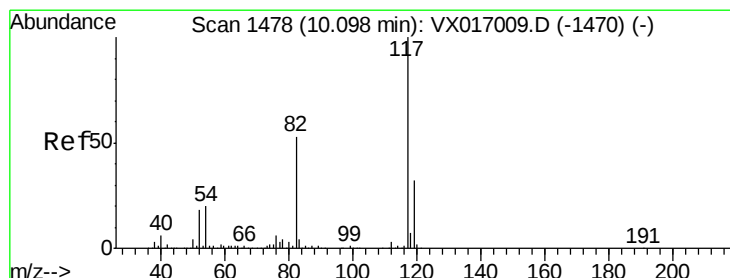
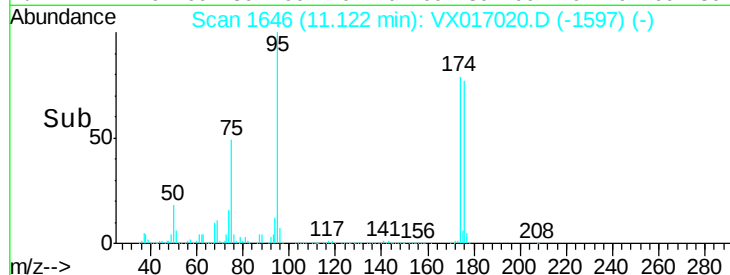
Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): VX0

Ion 175.80 (175.50 to 176.50): VX0

11.12

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX017020.D

Acq: 29 Jun 2020 20:26

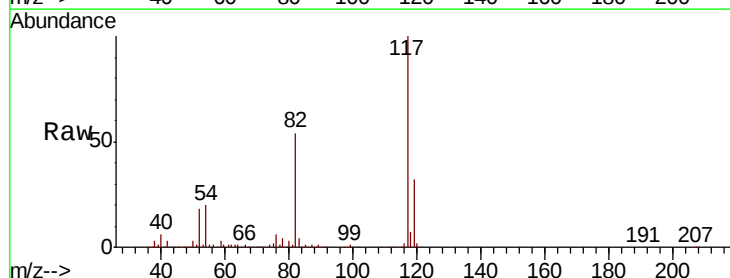
Tgt Ion: 117 Resp: 466839

Ion Ratio Lower Upper

117 100

82 54.1 42.6 63.8

119 32.2 25.4 38.2



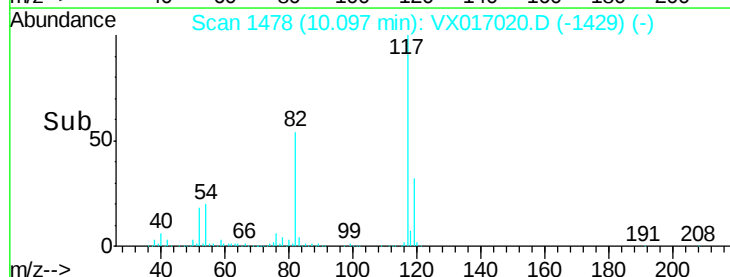
Abundance Ion 116.90 (116.60 to 117.60): VX0

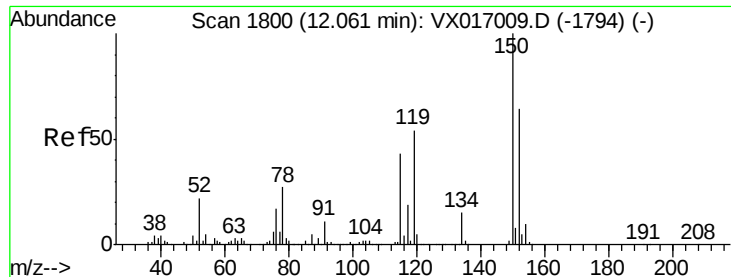
Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): VX0

10.10

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX017020.D

Acq: 29 Jun 2020 20:26

Instrument :

MSVOA_X

ClientSampleId :

RB02-20200624

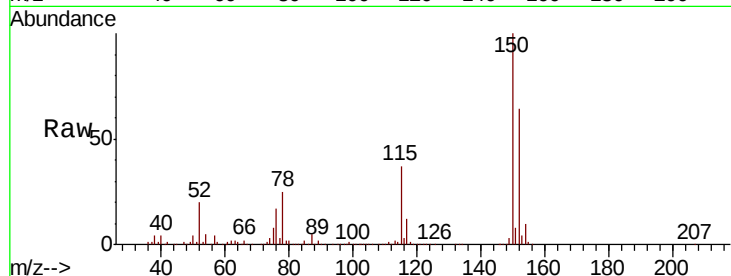
Tot Ion:152 Resp: 247886

Ion Ratio Lower Upper

152 100

115 57.3 40.9 122.7

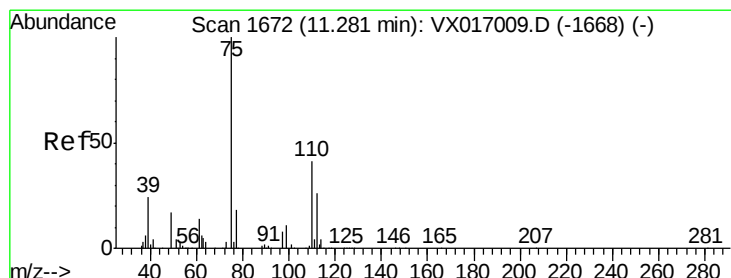
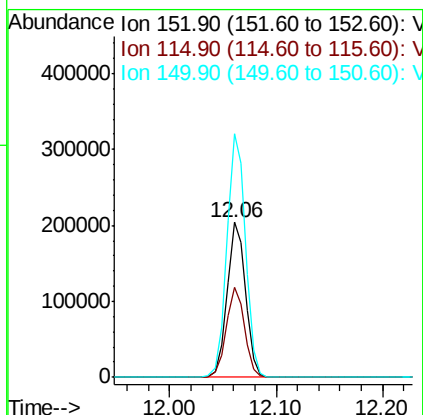
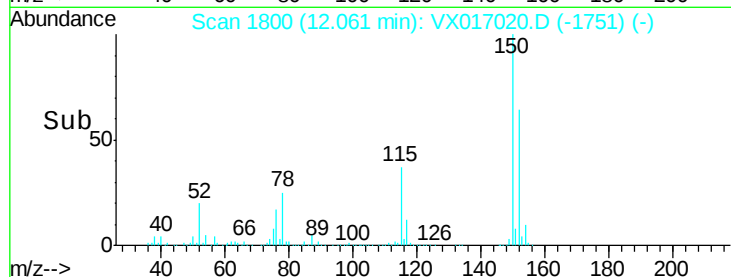
150 157.9 0.0 351.6



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 23.732 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017020.D

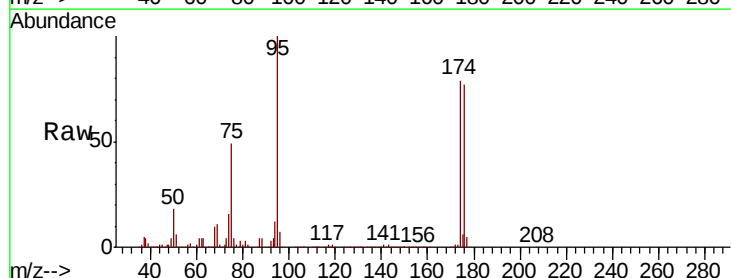
Acq: 29 Jun 2020 20:26

Tgt Ion: 75 Resp: 115681

Ion Ratio Lower Upper

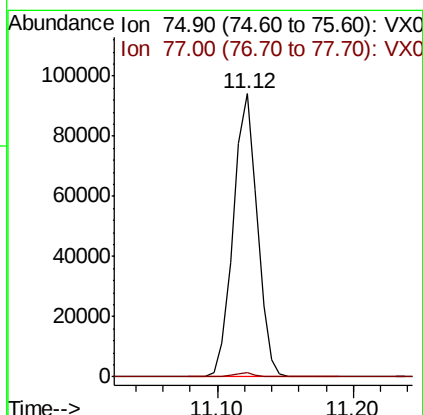
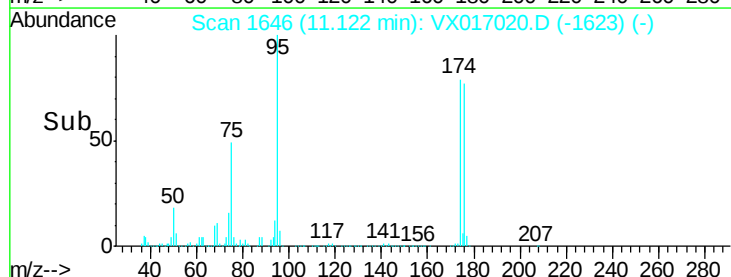
75 100

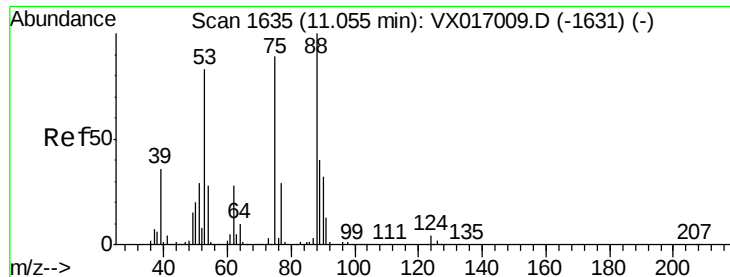
77 1.4 20.2 60.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 61.457 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX017020.D

Acq: 29 Jun 2020 20:26

Instrument :

MSVOA_X

ClientSampleId :

RB02-20200624

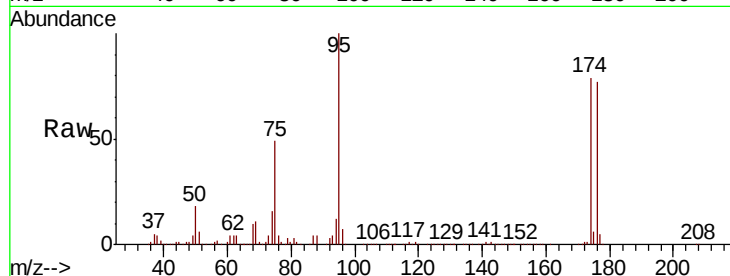
Tot Ion: 75 Resp: 115681

Ion Ratio Lower Upper

75 100

53 0.2 72.4 108.6#

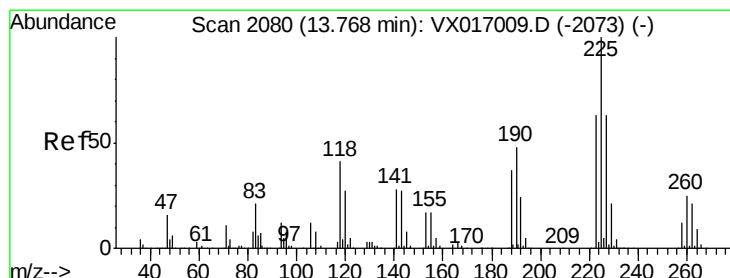
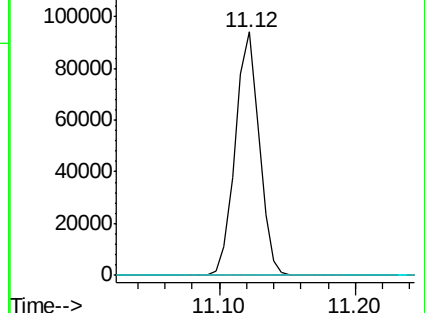
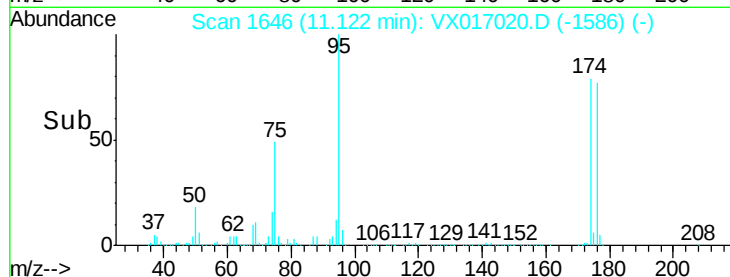
89 0.0 37.0 55.4#



Abundance Ion 74.90 (74.60 to 75.60): VX017020.D (-1586) (-)

Ion 53.00 (52.70 to 53.70): VX017020.D (-1586) (-)

Ion 88.90 (88.60 to 89.60): VX017020.D (-1586) (-)



#94

Hexachlorobutadiene

Concen: 0.898 ug/l

RT: 13.77 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX017020.D

Acq: 29 Jun 2020 20:26

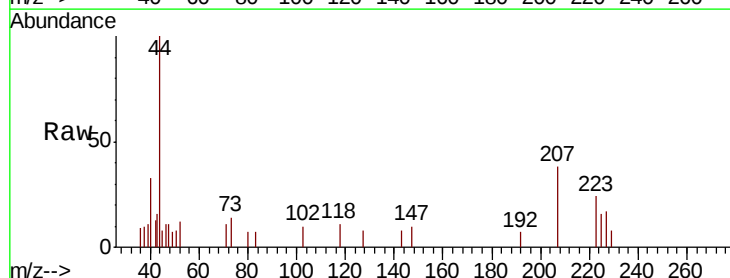
Tgt Ion: 225 Resp: 108

Ion Ratio Lower Upper

225 100

223 105.6 32.5 97.5#

227 116.7 33.1 99.2#



Abundance Ion 224.70 (224.40 to 225.40): VX017020.D (-2031) (-)

Ion 222.70 (222.40 to 223.40): VX017020.D (-2031) (-)

Ion 226.70 (226.40 to 227.40): VX017020.D (-2031) (-)

